

**ABSTRACT**

A system for designing CAD assemblies and products over a network that includes a CAD system and a design system. The design system includes an administration CAD adapter, an administration system, a scripting engine, a database, and a server CAD adapter. The administration CAD adapter interfaces between the administration system and the CAD system. The administration system defines relationships between CAD objects and Web objects. The scripting engine generates assembly instructions and product configuration forms from the defined relationships. A client connects to the design system and uses the forms to generate a CAD product design. The product design form includes fields that are automatically modified in response to entries on or connected to the form. Once the completed form is submitted, the server CAD adapter generates assembly instructions which are executed by the CAD system to generate the product design based on inputs from the product configuration form.